4.09 New Effluent Pond

General Conditions

This New Effluent Pond was constructed in 2013 to accommodate the new sewage plant and serve as a PWSP for this new plant which had yet to be put into operation at the time of our inspection.

We noted the following;

1. The pond has a design capacity of 1080 m^3 with 1.0 m freeboard.

2. The dyke is constructed of 150 mm crushed mine rock material that is not subject to erosion.

3. The dyke has a summer design capacity of 2230 m^3 with 0.3 m freeboard.

4. The quality of construction is such that this structure should last for many decades.

Stability

We noted no sign of weakness in any of the construction.

Design

We attach a copy of the following Hatch drawing:

2735-10-035-0001
2735-10-035-0002

These drawings set out the plan, section, and details of the Effluent Pond construction.

4.10 Overview

The permanent facilities for Milne Inlet are currently under construction and many of the facilities reported on are scheduled for decommissioning over the next 12 months as the new facilities are constructed.

Design drawings and photos of new facilities have been included with this report.

Respectfully submitted

Barry H. Martin, P. Eng., MRAIC
BHM/jw

REGISTERED PROFESSIONAL ENGINEER
B.H. MARTIN
LICENSEE
27/10/13
NWT/NU

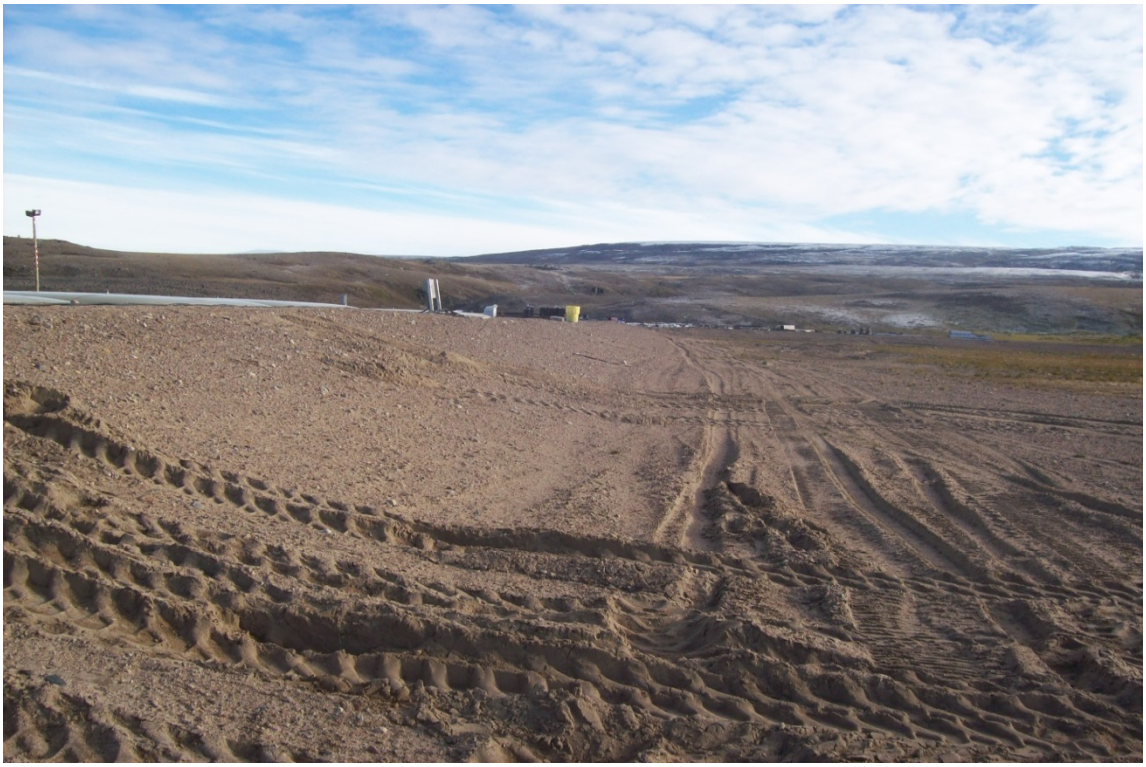
PHOTOS

- **Mary River**

3.02. Bulk Fuel Storage Containment

Interior of Bulk Fuel Storage Containment Shows trapped water in containment.

Loading/Unloading facility at end of Bulk Fuel Storage Containment.



Exterior of Bulk Fuel Storage Containment dyke.

3.03. Generator Fuel Storage Containment

Sign directing maximum height of loading bladder at Generator Fuel Storage Containment.